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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/761,939	01/16/2001		Everett Arthur Corl JR.	RAL92000090US1	5563	
25299	7590	01/09/2006		EXAM	EXAMINER	
IBM CORP		N	FILIPCZYK,	FILIPCZYK, MARCIN R		
DEPT YXSA, BLDG 002				ART UNIT	PAPER NUMBER	
RESEARCH TRIANGLE PARK, NC 27709				2163		

DATE MAILED: 01/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	09/761,939	CORL ET AL.						
Office Action Summary	Examiner	Art Unit						
	Marc R. Filipczyk	2163						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. the mailing date of this communication. (35 U.S.C. § 133).						
Status								
1)⊠ Responsive to communication(s) filed on 14 De	ecember 2005							
· _ · ·	•							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-5,26 and 27</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-5,26 and 27</u> is/are rejected.								
7) Claim(s) is/are objected to.								
	<u> </u>							
Application Papers	4							
·· _								
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>16 January 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Tribe the bath of declaration is objected to by the Ex-	ammer. Note the attached Office	Action of form P10-132.						
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
Copies of the certified copies of the prior	ty documents have been receive	d in this National Stage						
application from the International Bureau	,							
* See the attached detailed Office action for a list of	of the certified copies not receive	d.						
Attachment(s)								
1) D Notice of References Cited (PTO-892)	4) 🔲 Interview Summary							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te atent Application (PTO-152)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (F10-192)						

Response to Amendment

This Action is responsive to Applicant's response filed on December 14, 2005 wherein claims 1-5, 26 and 27 are pending.

Oath/Declaration

Applicant's Declaration filed on December 14, 2005 has been considered but is not accepted because the submitted document does not precede the prior art's filing date.

For more information please refer to the "Response to Arguments" heading.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-5, 26 and 27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the segment "Almost-Exact Rules" is indefinite. Almost-Exact Rules are not definite because the meets and bounds of what constitutes Almost-Exact Rules is not clear and inconsistent. Second, the segment "Other Rules" is indefinite. It is not clear what the meets and bounds of Other Rules are.

Regarding claim 5, the segment, "each rule" is indefinite. It is not clear what exactly is claimed.

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Regarding claim 27, the term, "component" is indefinite. It is not clear how component relates to a wild card. Further, the phrase "the rule" is indefinite. It is not clear what rule is referred to.

Regarding claims 2-5, 26 and 27 depend from claim 1, and are therefore rejected on the same basis.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 5, 26 and 27 are rejected under 35 U.S.C. 102(e) as best as the Examiner is able to ascertain as being anticipated by Lu et al., herein "Lu" (U.S. Patent No. 6,778,984).

Regarding claim 1, Lu discloses a system and method comprising:

providing a database of rules; (fig. 1 and col. 2, lines 21-25)

applying an algorithm to the database to identify all the rules; (fig. 1 and related text, i.e.,

col. 4, lines 1-57)

(Note: all the rules comprise Almost-Exact and Other rules)

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partitioning the database so that a set of rules (*Almost-Exact Rules*) are grouped into one or more groups; (abstract, lines 3-7, col. 5, lines 43-49 and fig. 6, **cycle #0**, rules 0-15) and partitioning the database so that another set of rules (*Other rules*) are grouped in at least one separate group (abstract, lines 3-7, col. 5, lines 43-49 and fig. 6, **cycle #1**, rules 16-31).

Regarding claim 2, Lu discloses a step of using search algorithm (*Full Match*) to test data with the set of rules (*Almost-Exact rules*) in the group (col. 2, lines 22-47).

Regarding claim 3, Lu discloses a step of using algorithm (*Software Managed Tree*) to test packets of data received from a network against the another set of rules (*Other rules*) in the separate group (col. 2, lines 22-47).

Regarding claim 5, Lu discloses the database of rules is being partitioned as a function of sub-fields within each rules (fig. 2, *input keys* and *mapping table*, see also related text).

Regarding claim 26, Lu discloses the set if rules (*Almost-Exact Rules*) include a range of values on only one sub-field (fig. 5, rule vectors).

Regarding claim 27, Lu discloses one of the set of rules (*Almost-Exact Rules*) includes a wild card in only one component (fig. 1, don't care values "X").

Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lu et al., herein "Lu" (U.S. Patent No. 6,778,984) in view of Muller et al., herein "Muller" (U.S. Patent No. 5,909,686).

Regarding claim 4, Lu discloses all the subject matter as set forth above, in addition Lu teaches Content-Addressable Memory (CAM) (col. 6, lines 55-60) but does not explicitly use CAM because memory is expensive (col. 2, lines 11-18 Lu).

(Note: Applicant admits that CAM is expensive: page 5, lines 1-4)

However, Muller teaches a network system wherein CAM is used to access mask data corresponding to a particular search key (abstract, Muller). Hence, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate CAM as taught by Muller into Lu's system because Lu teaches CAM and further Lu's system is flexible and can be used as a replacement method for CAM (col. 6, lines 55-60 Lu) thus Lu's system uses a similar format to that of a general CAM system such as in Muller system. One would have been motivated to use CAM in Lu's system to increase performance at a higher cost.

Response to Arguments

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Applicant's arguments filed on December 14, 2005 have been fully considered but they are not persuasive. The arguments and responses are listed below.

Applicant argues on page 4 of the 12/14/05 response that a Declaration of prior invention under Rule 131 was submitted and should be effective to remove from consideration Examiner's primary reference.

Examiner disagrees. Applicant's Declaration has been considered but is not accepted because the declarant states, "that the redacted dates are well prior to October 30, 2000" (see Declaration, page 2, par. 3 submitted 12/14/05). This however, does not precede the prior art's filing date of October 23, 2000. At least for the reason stated above, the submitted Declaration is not accepted.

Applicant argues on page 4 of the 12/14/05 response to withdraw indefiniteness rejections.

Examiner disagrees. Regarding claim 1, although Applicant refers to the specification for various definitions of components, Examiner maintains that the metes and bounds of different types of rules are not distinct in the claims and are therefore indefinite. Regarding claim 5, the feature of "as a function of sub-fields within each rule" is indefinite because it is not clear what rule is referred to. Regarding claim 27, it is not clear how the component and wildcard relate and which rule is referred to.

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With respect to all the pending claims 1-5, 26 and 27, Examiner respectfully traverses

Applicant's assertion based on the discussion cited above, as such, Examiner maintains the same rejections.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc R. Filipczyk whose telephone number is (571) 272-4019. The examiner can normally be reached on Mon-Fri, 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on (571) 272-4023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MF January 3, 2006

MOHAMMER EXAMINER PRIMARY EXAMINER